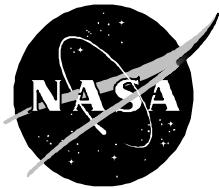


VERSION DESCRIPTION DOCUMENT FOR THE ACQUISITION MANAGEMENT SYSTEM (AMS)

Release

PrISMS Contract

June 1998



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT
FOR THE
ACQUISITION MANAGEMENT SYSTEM (AMS)
RELEASE 7.0.1**

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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FOR THE
ACQUISITION MANAGEMENT SYSTEM (AMS)
RELEASE 7.0.1**

Approved by

Sheila Fogle
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

June 1998

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1.0 INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for Release 7.0.1 of the Acquisition Management System (AMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as AMS, Release 7.0.1 and has an effective release date of June 30, 1998.

1.2 PURPOSE OF THE RELEASE

This release implements modifications necessitated by the following Change Control Requests (CCR):

RC 1230 - Add Cage Code to the Vendor file.

DR 1231 - Grant Processing Discrepancy.

1.3 SCOPE

This VDD provides the functional and technical user of AMS with information regarding the contents, status, and structure of Release 7.0.1, including the following:

- Changes implemented since Release 7.0.
- Validation procedures to ensure the reliability of release changes.
- References to other documentation affected by this release.
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for AMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Identify yourself as SESAAS & AMS.)

Telephone: (205) 544-6673

Email: charmaine.absher@msfc.nasa.gov

FAX: (205) 544-1836

2.0 FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT and SYSERR changes related to this release. Appendix E contains sample JCL that will be needed for release installation.

2.2 FUNCTIONAL INTERFACES

This release has no functional impact on interfaces with any SESAAS (Sustaining Engineering Support for Agencywide Administrative Systems) application.

2.3 CRITICAL ISSUES

There has been a recent discovery that at least two centers do not have all of the AMS baseline modules. For this reason, the entire baseline is included in this release. It is highly recommended that all centers load the complete 7.0.1 baseline.

Refer to the procedure described in Appendix D for assistance in preparing for proper installation of this release. Appendix F contains a complete listing of AMS baseline modules.

2.4 AFFECTED DOCUMENTS

No documents are affected by this release.

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3.0 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

There are no technical systems interface issues with this release.

3.2 DATA DICTIONARY CHANGES

Dictionary changes are detailed in Appendix D, Section 4.0.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for AMS Software Release 7.0.1 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4.0 KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A
ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

AMS	Acquisition Management System
CC	Consolidation Center
CCR	Change Control Request
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IFMP	Integrated Financial Management Program
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
RC	Requirements Change
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

APPENDIX B

GLOSSARY

GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with an application.

APPENDIX C

FUNCTIONAL CHANGE VALIDATION

PROCEDURES

FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release.

Section	CCR	Title
1.0	001230	Add Cage Code to the Vendor file
2.0	001231	Grant Processing Discrepancy

Details for the validation procedures are listed below. All changes have been validated in both the NAT 2.2.6 and NAT 2.2.8 environments.

1. RC Number 1230

Add Cage Code to the Vendor file.

Description of Change

AMS needs to have the capability to add, update, and delete a Cage Code on the Vendor file. This will be used to assist the centers when it is time to convert to IFMP. This will be an optional five digit alphanumeric field. There will be no edit checks on this field.

Functional Impact

Users will now be able to enter a cage code when adding vendor records.

Validation Procedures

- Verify that the new CAGE-CODE field has been added to the screens for the following options of the Vendor Menu:
 - 1 - Add New Vendor
 - 2 - Update Vendor
 - 3 - Delete Vendor
 - 4 - Query Vendor
 - 13 - Alphabetic Vendor Listing
 - 17 - Add New Vendor (Small Purchase)
 - 18 - Update Vendor (Small Purchase)
- Using Option 1, add a new vendor with a cage code. Using Option 4, view the new vendor record just added. Verify that the cage code displayed is correct.
- Using Option 2, change the cage code of the previously added vendor. Using Option 4, verify that the cage code was changed correctly.
- Using Option 13, verify that the cage code is displayed for the vendor record being used for testing.
- Create a document (purchase order, contract, or grant) using the vendor added above.

- Using Option 3, attempt to delete the vendor added above. Verify that the cage code that is displayed is correct. The following message will be displayed: "THERE ARE DOCUMENT(S) LINKED TO THIS VENDOR. IT CANNOT BE DELETED."
- Delete the document that was created.
- Using Option 3, attempt to delete the vendor. Verify that the cage code that is displayed is correct. The following message should be displayed: "CONFIRM DELETE BY TYPING 'DELETE'." Type DELETE in the space provided to delete the vendor.
- Using Option 17, add a new small purchase vendor with a cage code. Using Option 4, view the new vendor record just added. Verify that the cage code displayed is correct.
- Using Option 18, change the cage code of the small purchase vendor added above. Using Option 4, verify that the cage code was changed correctly.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
QBV02	Vendor Record Add	PGM
QBV02M1	Vendor Record Add - Map	MAP
QBV03	Vendor Record Update	PGM
QBV03M1	Vendor Record Update - Map	MAP
QBV04	Vendor Record Inquiry	PGM
QBV05	Vendor Alpha Name Lookup	PGM
QBV10	Vendor Delete	PGM
QBV20	Vendor Record Add (Short Purchase Version)	PGM
QBV21	Vendor Record Update (Short Purchase Version)	PGM
QEMLBV10A	Vendor Delete - Map1	MAP
QEMLBV10E	Vendor Delete - Map2	MAP
QGM00	Session Initialization	PGM

2. DR Number 1231

Grant Processing Discrepancy.

Description of Change

When a grant is queried and it has multiple PR's, the NUM-LINKED field on the screen indicates that only one PR is linked to the grant. If a "Y" is entered in the MORE-PR'S field, the screen displaying the PR's does not show the PR shown on the first screen.

Functional Impact

There is no functional impact as a result of this CCR.

NOTICE:

Prior to executing the following test procedure, run the adhoc program CCR1231A. If a report is produced stating that your site has records with invalid data in the DOCUMENT-NUM field of the PR-X-REFERENCE file, run the adhoc program CCR1231B. (Sample JCL for these programs is provided in Appendix E.) If CCR1231A states that your site has 0 (zero) records with incorrect data, the adhoc CCR1231B does not have to be run and the validation procedures for CCR1231 do not have to be executed.

After successfully executing the adhoc programs and the following validation procedure in your PRODUCTION environment, delete the adhoc programs.

Validation Procedures

- Using Option 1 of the Grant Award Menu (Add an Original Grant Award), add a grant with multiple PR's. Verify by using Option 2 (Update an Original Grant Award) that the PR Number that is on Page 1 of the grant is also listed on the GRANT/PR DOCUMENT CROSS REFERENCE UPDATE screen. (This screen can be viewed by putting a "Y" in the MORE-PR'S field.) Verify that the NUM-LINKED field on Page 1 indicates the total number of PR's that are listed on the GRANT/PR DOCUMENT CROSS REFERENCE UPDATE screen.
- Using Option 3 of the Grant Award Menu (Query an Original Grant Award), verify that the PR Number that is on Page 1 of the grant is also listed on the GRANT/PR DOCUMENT CROSS REFERENCE QUERY screen. Verify that the NUM-LINKED field on Page 1 indicates the total number of PR's that are listed on the GRANT/PR DOCUMENT CROSS REFERENCE QUERY screen.

- Using Option 1 of the Grant Administration Menu (Add a Grant Supplement) and the grant created above, add a supplement with multiple PR's. Verify by using Option 2 (Update a Grant Supplement) that the PR Number that is on Page 1 of the supplement is also listed on the GRANT/PR DOCUMENT CROSS REFERENCE UPDATE screen. Verify that the NUM-LINKED field on Page 1 indicates the total number of PR's that are listed on the GRANT/PR DOCUMENT CROSS REFERENCE UPDATE screen.
- Using Option 3 of the Grant Administration Menu (Query a Grant Supplement), verify that the PR Number that is on Page 1 of the supplement is also listed on the GRANT/PR DOCUMENT CROSS REFERENCE QUERY screen. Verify that the NUM-LINKED field on Page 1 indicates the total number of PR's that are listed on the GRANT/PR DOCUMENT CROSS REFERENCE QUERY screen.
- Follow the four steps above using Purchase Orders instead of Grants to verify that the same process is working correctly for Purchase Orders and Purchase Order Modifications.
- Follow the four steps above using Contracts instead of Grants to verify that the same process is working correctly for Contracts and Contract Modifications.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
CCR1231A	Adhoc to Display Records That Need Correcting	PGM
CCR1231B	Adhoc to Correct Records	PGM

APPENDIX D
INSTALLATION INSTRUCTIONS
FOR AMS SOFTWARE RELEASE 7.0.1

INSTALLATION INSTRUCTIONS AND CHECKLIST FOR AMS SOFTWARE RELEASE 7.0.1

Introduction

Release information:

System Name: AMS
Release Number: 7.0.1
Release Date: June 30, 1998
Effective Date: June 30, 1998

The following datasets are located on the Central Distribution Facility.

- AIMS.AMS.PROD.REL701.REL0698.DOC
- AIMS.AMS.PROD.REL701.REL0698.SRC
- AIMS.AMS.PROD.REL701.REL0698.NCP
- AIMS.AMS.PROD.REL701.REL0698.PRD323
- AIMS.AMS.PROD.REL701.REL0698.PRD341

In case of installation problems, contact the NACC Technical Services Center (Identify yourself as SESAAS & AMS.)

Telephone: (205) 544-6673
Email: charmaine.absher@msfc.nasa.gov
FAX: (205) 544-1836

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all AMS files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Load the AMS source from dataset AIMS.AMS.PROD.REL701.REL0698.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library LAMSPROD, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by type	
GLOBAL DATA AREA	2
LOCAL/PARAM DATA AREA	13
MAPS	169
HELP ROUTINES	20
SUBROUTINES	0
SUBPROGRAMS	105
PROGRAMS	387
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	1
Total:	697

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules:

There are no modules added in this release.

Changed Modules:

1. QBV02	Vendor Record Add	Program
2. QBV02M1	Vendor Record Add - Map	Map
3. QBV03	Vendor Record Update	Program
4. QBV03M1	Vendor Record Update - Map	Map
5. QBV04	Vendor Record Inquiry	Program
6. QBV05	Vendor Alpha Name Lookup	Program
7. QBV10	Vendor Delete	Program
8. QBV20	Vendor Record Add (Short Purchase Version)	Program
9. QBV21	Vendor Record Update (Short Purchase Version)	Program
10.QEMBV10A	Vendor Delete - Map1	Map
11.QEMBV10E	Vendor Delete - Map2	Map
12.QGM00	Session Initialization	Program

Deleted Modules:

1. NAHF32NB	Field Level Help Table Display Window For Country Code Table 48	Subprogram
2. NAHS11MA	Screen Level Help Table Of Contents - Map	Map
3. NAHS11NA	Screen Level Help Table Of Contents	Subprogram
4. QBV11	Vendor Batch Update Menu	Program
5. QEVCFC	Local Data Area	LDA
6. CCR1211	Adhoc Program for CCR1211	Program
7. CCR1212	Adhoc Program for CCR1212	Program
8. CCR1214	Adhoc Program for CCR1214	Program
9. CCR1214B	Adhoc Program for CCR1214B	Program
10. CCR1215	Adhoc Program for CCR1215	Program
11. CCR1215B	Adhoc Program for CCR1215B	Program
12. CCR1216	Adhoc Program for CCR1216	Program
13. CCR1218	Adhoc Program for CCR1218	Program
14. CCR1221C	Adhoc Program for CCR1221C	Program
15. CCR1221R	Adhoc Program for CCR1221R	Program
16. CCR1224	Adhoc Program for CCR1224	Program
17. C1154LST	Adhoc Program for CCR1154	Program
18. C1174CNV	Adhoc Program for CCR1174	Program
19. C1174LST	Adhoc Program for CCR1174	Program
20. C948CNV	Adhoc Program for CCR948	Program
21. DR1192	Adhoc Program for CCR1192	Program
22. DR1201	Adhoc Program for CCR1201	Program
23. DR1202	Adhoc Program for CCR1202	Program

24. DR1204	Adhoc Program for CCR1204	Program
25. DR1210	Adhoc Program for CCR1210	Program

The following programs were created for this release:

1. CCR1231A Adhoc created to display records to be corrected in the PR-X-REFERENCE file.
2. CCR1231B Adhoc created to correct data in the PR-X-REFERENCE file.

(These programs should be deleted after you successfully install this release in production.)

2.3 Copy Object Modules

Load the AMS Command Processor object from dataset AIMS.AMS.PROD.REL701.REL0698.NCP. The Command Processor was unloaded using the Natural utility NATUNLD and will load into the application library LAMSPROD, replacing the object code for the same. The object module counts included in this release are listed below:

Natural Source Modules by type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	0
MAPS	0
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	0
PROGRAMS	0
COPYCODE	0
TEXT	0
PROCESS	1
MISCELLANEOUS OBJECTS	0
Total:	1

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

4.1 Data Dictionary Changes

This release will include the new enhancements for version 7.0.1. Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing Predict reporting on the keyword AMS-7.0.1.

The following AMS DDM should be generated after the appropriate PREDICT load is completed.

VENDOR-FILE

PREDICT Version 3.2.3 Load

Use SYSDICBE to load the PREDICT modifications from the dataset AIMS.AMS.PROD.REL701.REL0698.PRD323.

PREDICT Version 3.4.1 Load

Use SYSDICBE to load the PREDICT modifications from the dataset AIMS.AMS.PROD.REL701.REL0698.PRD341.

4.1.1 Inventory of Objects

The object types and inventory listed below represent a comprehensive count of the Predict object modules for this release.

PREDICT Objects by Type:

Keyword	-	1
Standard Files	-	1
ADABAS Files and Views	-	9
Data Elements	-	630
Total Object Count	-	641

4.1.2 Storage Considerations

Not applicable with this release.

4.1.3 Physical File Changes

Use the ADABAS Utility commands listed below to build the JCL for file changes. The ADADBS control statements can be cut from the VDD and pasted into the TSO ISPF editor. Include the six (6) spaces before the command in the "CUT" and position the cursor in the first position of the ISPF sequence numbers, for the "PASTE". Call RICK BISHOP (256)544-5352 with any questions or problems.

Add the following field:

VENDOR-FILE	File # 207
Ty L Field name	F Length Occ D U DB S
*- - -----	*- ----- * * -- *
1 CAGE-CODE	A 5.0 AE N

Using the following command to change the field length:

```
ADADBS NEWFIELD FILE=207  
ADADBS FNDEF='01,AE,5,A,NU'
```

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all AMS modules in the LAMSPROD or other named library. The SESAAS Batch standard parameters should be used for the compile.

After all objects are compiled, the AMS application will run under the SESAAS On-line standard parameter.

6.0 Post-Predict Data Conversion

Run CCR1231A in batch. This program will produce a printout of the records that have invalid data in the DOCUMENT-NUM field of the PR-X-REFERENCE file. Sample JCL has been provided in Appendix E.

If CCR1231A produces a report stating your site has records with invalid data in the DOCUMENT-NUM field of the PR-X-REFERENCE file, run CCR1231B in batch to correct the data. Sample JCL has been provided in Appendix E.

7.0 Perform Release-Specific Procedures

There are no Release-Specific Procedures with this release.

8.0 Local JCL Mods

There are no local JCL mods with this release.

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.1 Copy Source Code
- 2.3 Copy Object Modules
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion

APPENDIX E

**SAMPLE JOB CONTROL LANGUAGE FOR ADHOC
PROGRAMS IN RELEASE 7.0.1**

SAMPLE JOB CONTROL LANGUAGE FOR ADHOC PROGRAMS IN RELEASE 7.0.1

Sample JCL is listed for the adhocs in Release 7.0.1.

1. Adhoc CCR1231A

```
***** ***** TOP OF DATA *****
000100 //CCR1231A   JOB (MSIRMAMS0004),AMS701,
000200 //           CLASS=D,MSGCLASS=A,
000300 //           NOTIFY=XXXXX
000400 //*****
000500 /*
000600 //ND01X      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMPPRINT   DD SYSOUT=*
000900 //CMSYNIN    DD *
001000 AMDEVL,XXXXX,XXXXX
001110 CCR1231A
001200 FIN
001300 /*
001700 //
***** ***** BOTTOM OF DATA *****
```

2. Adhoc CCR1231B

```
***** ***** TOP OF DATA *****
000100 //CCR1231B   JOB (MSIRMAMS0004),AMS701,
000200 //           CLASS=D,MSGCLASS=A,
000300 //           NOTIFY=XXXXX
000400 //*****
000500 /*
000600 //ND01X      EXEC N01Z,PRM='IM=D,MT=99999'
000700 //CMPPRINT   DD SYSOUT=*
000900 //CMSYNIN    DD *
001000 AMDEVL,XXXXX,XXXXX
001110 CCR1231B
001200 FIN
001300 /*
001700 //
***** ***** BOTTOM OF DATA *****
```


APPENDIX F

AMS MODULE LISTING

AMS BASELINE MODULES

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
1	ACOMMON	Program
2	COMMON	Global
3	NABL01LA	Local
4	NABL01NA	Subprogram
5	NABV01NA	Subprogram
6	NABV02NA	Subprogram
7	NABV50NA	Subprogram
8	NACA01NA	Subprogram
9	NACB01NA	Subprogram
10	NACB50LA	Local
11	NACB50NA	Subprogram
12	NACB51LA	Local
13	NACCW1MA	Map
14	NACC01MA	Map
15	NACC01NA	Subprogram
16	NACC22MA	Map
17	NACD01NA	Subprogram
18	NACPERNA	Subprogram
19	NADO00MA	Map
20	NADO00PA	Program
21	NADO01MA	Map
22	NADO01NA	Subprogram
23	NADO01NB	Subprogram
24	NADO01NC	Subprogram
25	NADO01ND	Subprogram
26	NADO01NE	Subprogram
27	NADO01PA	Program
28	NADO02MA	Map
29	NADO02NA	Subprogram
30	NADO02PA	Program
31	NADO03MA	Map
32	NADO03MB	Map
33	NADO03PA	Program
34	NADO04MA	Map
35	NADO04MB	Map
36	NADO04PA	Program
37	NADO04PB	Program
38	NADO05MA	Map
39	NADO05MB	Map
40	NADO05MC	Map

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
41	NADO05MD	Map
42	NADO05PA	Program
43	NADO06MA	Map
44	NADO06MB	Map
45	NADO06PA	Program
46	NADO07MA	Map
47	NADO07PA	Program
48	NADO08MA	Map
49	NADO08PA	Program
50	NADO09MA	Map
51	NADO09PA	Program
52	NAGE01NA	Subprogram
53	NAGRS1MA	Map
54	NAGRS1PA	Program
55	NAGRS2MA	Map
56	NAGRS2MB	Map
57	NAGRS2MC	Map
58	NAGRS2PA	Program
59	NAGRS2PB	Program
60	NAGRS2PC	Program
61	NAGRS2PD	Program
62	NAGRS3NA	Subprogram
63	NAGRS3NB	Subprogram
64	NAGR01PA	Program
65	NAGR10PA	Program
66	NAHAUDLA	Local
67	NAHFC1HA	Helproutine
68	NAHFC1MA	Map
69	NAHFC1MB	Map
70	NAHFC1MC	Map
71	NAHFC1NA	Subprogram
72	NAHFC1NB	Subprogram
73	NAHF00HA	Helproutine
74	NAHF00HB	Helproutine
75	NAHF01HA	Helproutine
76	NAHF01HB	Helproutine
77	NAHF01LA	Local
78	NAHF01MA	Map
79	NAHF01NA	Subprogram
80	NAHF01NB	Subprogram
81	NAHF02HA	Helproutine
82	NAHF02HB	Helproutine
83	NAHF02NA	Subprogram

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
84	NAHF03HA	Helproutine
85	NAHF03NA	Subprogram
86	NAHF04NA	Subprogram
87	NAHF05HA	Helproutine
88	NAHF05NA	Subprogram
89	NAHF06NA	Subprogram
90	NAHF07NA	Subprogram
91	NAHF08NA	Subprogram
92	NAHF12HA	Helproutine
93	NAHF21HA	Helproutine
94	NAHF21HB	Helproutine
95	NAHF21NA	Subprogram
96	NAHF21NB	Subprogram
97	NAHF21NC	Subprogram
98	NAHF21ND	Subprogram
99	NAHF22HA	Helproutine
100	NAHF22NA	Subprogram
101	NAHF22NB	Subprogram
102	NAHF23HA	Helproutine
103	NAHF23NA	Subprogram
104	NAHF23NB	Subprogram
105	NAHF23NC	Subprogram
106	NAHF23ND	Subprogram
107	NAHF28HB	Helproutine
108	NAHF28NA	Subprogram
109	NAHF28NB	Subprogram
110	NAHF28NC	Subprogram
111	NAHF31HA	Helproutine
112	NAHF31MA	Map
113	NAHF31MB	Map
114	NAHF31MC	Map
115	NAHF31NA	Subprogram
116	NAHF31NB	Subprogram
117	NAHF32HA	Helproutine
118	NAHF32NA	Subprogram
119	NAHF90HA	Helproutine
120	NAHF90NA	Subprogram
121	NAHF91HA	Helproutine
122	NAHF91MA	Map
123	NAHF91NA	Subprogram
124	NAHP11PA	Program
125	NAHP20PA	Program
126	NAHP21NA	Subprogram

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
127	NAHP30MA	Map
128	NAHP30NA	Subprogram
129	NAHS00HA	Helproutine
130	NAHS00NA	Subprogram
131	NAHS01NA	Subprogram
132	NAHS02NA	Subprogram
133	NAHS10MA	Map
134	NAHS10MB	Map
135	NAHS10NA	Subprogram
136	NAHS10NB	Subprogram
137	NAMSCP	Processor
138	NANA01NA	Subprogram
139	NANB01NA	Subprogram
140	NANT01NA	Subprogram
141	NAPM06MA	Map
142	NAPM06MB	Map
143	NAPM06PA	Program
144	NAPR00LA	Local
145	NAQSC1MA	Map
146	NAQSC1PA	Program
147	NAQSM2MA	Map
148	NAQSM2PA	Program
149	NAQSP1MA	Map
150	NAQSP1MB	Map
151	NAQSP1NA	Subprogram
152	NAQSP1NB	Subprogram
153	NAQSP1NC	Subprogram
154	NAQSP1PA	Program
155	NAQS00GA	Global
156	NAQS00PA	Program
157	NASA50NA	Subprogram
158	NASB34MA	Map
159	NASB34PA	Program
160	NASB37MA	Map
161	NASB37PA	Program
162	NASB50NA	Subprogram
163	NASG00MA	Map
164	NATM00MA	Map
165	NAUD01PA	Program
166	NAXBOAMA	Map
167	NAXBOAPA	Program
168	NAXD01NA	Subprogram
169	NAXMPCNA	Subprogram

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
170	NAXPM1NA	Subprogram
171	NAXPR1NA	Subprogram
172	QAR01	Program
173	QAR02	Program
174	QUA01	Program
175	QBB03	Program
176	QBB11	Program
177	QBB12	Program
178	QBB13	Program
179	QBB14	Program
180	QBB20	Program
181	QBB21	Program
182	QBB22	Program
183	QBC02	Program
184	QBC03	Program
185	QBC04	Program
186	QBC05	Program
187	QBC07	Program
188	QLB01	Program
189	QLB02	Program
190	QLB03	Program
191	QLB04	Program
192	QLB05	Program
193	QLB07	Program
194	QLB10	Program
195	QLB12	Program
196	QBR00	Program
197	QBR33	Program
198	QBR34	Program
199	QBR35	Program
200	QBR36	Program
201	QBR37	Program
202	QBR40	Program
203	QBR41	Program
204	QBR42	Program
205	QBV01	Program
206	QBV02	Program
207	QBV02M1	Map
208	QBV03	Program
209	QBV03M1	Map
210	QBV04	Program
211	QBV05	Program
212	QBV08	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
213	QBV10	Program
214	QBV15	Program
215	QBV16	Program
216	QBV17	Program
217	QBV20	Program
218	QBV21	Program
219	QBV25	Program
220	QBV30	Program
221	QBV31	Program
222	QBV33	Program
223	QBV34	Program
224	QBV35	Program
225	QBV36	Program
226	QBV37	Program
227	QBV41	Program
228	QBV42	Program
229	QBV43	Program
230	QBV44	Program
231	QBV45	Program
232	QBV90	Program
233	QCA00	Program
234	QCA10	Program
235	QCA11	Program
236	QCA12	Program
237	QCA13	Program
238	QCA14	Program
239	QCA15	Program
240	QCA16	Program
241	QCA17	Program
242	QCA20	Program
243	QCA21	Program
244	QCA22	Program
245	QCA25	Program
246	QCA25L	Local
247	QCA26	Program
248	QCA27	Program
249	QCA30	Program
250	QCA35	Program
251	QCA45	Program
252	QCA46	Program
253	QCA47	Program
254	QCA50	Program
255	QCA51	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
256	QCA80	Program
257	QCA85	Program
258	QCA87	Program
259	QCA88	Program
260	QCA89	Program
261	QCB00	Program
262	QCB10	Program
263	QCB15	Program
264	QCB20	Program
265	QCB25	Program
266	QCB33	Program
267	QCB34	Program
268	QCB35	Program
269	QCB37	Program
270	QCB38	Program
271	QCB40	Program
272	QCB42	Program
273	QCB50	Program
274	QCB51	Program
275	QCB52	Program
276	QCB60	Program
277	QCB61	Program
278	QCB70	Program
279	QCB71	Program
280	QCB80	Program
281	QCC00	Program
282	QCC10	Program
283	QCC20	Program
284	QCC21	Program
285	QCC22	Program
286	QCC23	Program
287	QCC26	Program
288	QCC27	Program
289	QCC70	Program
290	QCC71	Program
291	QCC72	Program
292	QCC74	Program
293	QCC75	Program
294	QCC77	Program
295	QCC79	Program
296	QCC80	Program
297	QCC82	Program
298	QCC83	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
299	QCC84	Program
300	QCC85	Program
301	QCC86	Program
302	QCC90	Program
303	QCD01	Program
304	QCG00	Program
305	QCR00	Program
306	QCR11	Program
307	QCR11A	Program
308	QCR12	Program
309	QCR13	Program
310	QCR14	Program
311	QCR15	Program
312	QCR16	Program
313	QCR17	Program
314	QCR18	Program
315	QCR19	Program
316	QCR19A	Program
317	QCR19B	Program
318	QCR20	Program
319	QEMBB03A	Map
320	QEMBB03B	Map
321	QEMBB03C	Map
322	QEMBB03D	Map
323	QEMBB12A	Map
324	QEMBB12B	Map
325	QEMBB20A	Map
326	QEMBB21A	Map
327	QEMBB22A	Map
328	QEMBC02	Map
329	QEMBC02B	Map
330	QEMBC03	Map
331	QEMBC04	Map
332	QEMBC05	Map
333	QEMBC07A	Map
334	QEMBC07B	Map
335	QEMBL01A	Map
336	QEMBL01B	Map
337	QEMBL01C	Map
338	QEMBL01D	Map
339	QEMBL02A	Map
340	QEMBL02B	Map
341	QEMBL03A	Map

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
342	QEMBL04A	Map
343	QEMBL05A	Map
344	QEMBL05B	Map
345	QEMBL05C	Map
346	QEMBR00A	Map
347	QEMBV01A	Map
348	QEMBV10A	Map
349	QEMBV10B	Map
350	QEMBV10C	Map
351	QEMBV10D	Map
352	QEMBV10E	Map
353	QEMBV15A	Map
354	QEMBV15B	Map
355	QEMBV30	Map
356	QEMBV31	Map
357	QEMBV33	Map
358	QEMBV34A	Map
359	QEMCA20	Map
360	QEMCA20A	Map
361	QEMCA21	Map
362	QEMCA21A	Map
363	QEMCA22	Map
364	QEMCA25	Map
365	QEMCA25A	Map
366	QEMCA25B	Map
367	QEMCA27	Map
368	QEMCB33	Map
369	QEMCB34	Map
370	QEMCB35	Map
371	QEMCB37	Map
372	QEMCB38	Map
373	QEMCB50	Map
374	QEMCB50A	Map
375	QEMCB51	Map
376	QEMCB51A	Map
377	QEMCB52	Map
378	QEMCB80	Map
379	QEMCD01	Map
380	QEMCD01A	Map
381	QEMCD01B	Map
382	QEMCR19	Map
383	QEMC01	Map
384	QEMDA51	Map

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
385	QEMDA51A	Map
386	QEMNA20	Map
387	QEMNA20A	Map
388	QEMNA21	Map
389	QEMNA21A	Map
390	QEMNA22	Map
391	QEMNB34	Map
392	QEMNB37	Map
393	QEMNB50	Map
394	QEMNB50A	Map
395	QEMNB51A	Map
396	QEMNB52	Map
397	QEMND01	Map
398	QEMND01A	Map
399	QEMND01B	Map
400	QEMPA01A	Map
401	QEMPA01B	Map
402	QEMPA01C	Map
403	QEMPA01D	Map
404	QEMPA01E	Map
405	QEMPA01F	Map
406	QEMPA10	Map
407	QEMPU01	Map
408	QEMSA15	Map
409	QEMSA15A	Map
410	QEMSA16	Map
411	QEMSA17	Map
412	QEMSA17A	Map
413	QEMSA21	Map
414	QEMSA21A	Map
415	QEMSA22	Map
416	QEMSA25	Map
417	QEMSA27	Map
418	QEMSA40A	Map
419	QEMSA40B	Map
420	QEMSA42A	Map
421	QEMSA42B	Map
422	QEMSB50	Map
423	QEMSB50A	Map
424	QEMSB51A	Map
425	QEMSB52	Map
426	QEMSB53	Map
427	QEMSB53A	Map

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
428	QEMSB54A	Map
429	QEMSB55	Map
430	QEMSD01	Map
431	QEMSD01A	Map
432	QEMSD01B	Map
433	QEMTU07A	Map
434	QEMTU07B	Map
435	QEMWBL2A	Map
436	QEMWBL2B	Map
437	QEMWBL2C	Map
438	QENA25	Subprogram
439	QENBL02A	Subprogram
440	QENCA25	Subprogram
441	QENCA85	Subprogram
442	QENCB50	Subprogram
443	QENCC01	Subprogram
444	QENCC02	Subprogram
445	QENCMG01	Subprogram
446	QENCN01	Subprogram
447	QENCN02	Subprogram
448	QENCPR01	Subprogram
449	QENCR19	Subprogram
450	QENCS01	Subprogram
451	QENCS02	Subprogram
452	QEND01	Subprogram
453	QENGR14	Subprogram
454	QENGR14B	Subprogram
455	QENGR14C	Subprogram
456	QENGR14D	Subprogram
457	QENNPR01	Subprogram
458	QENPA01A	Subprogram
459	QENPA01B	Subprogram
460	QENPA01C	Subprogram
461	QENP01	Subprogram
462	QENP02	Subprogram
463	QENSMG01	Subprogram
464	QENSPr01	Subprogram
465	QENT59	Subprogram
466	QEVAcf	Local
467	QEVGf	Local
468	QEvnT	Local
469	QEvvF	Local
470	QEwbl02A	Subprogram

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
471	QEWBLO2B	Subprogram
472	QEWBLO2C	Subprogram
473	QEWBV10A	Subprogram
474	QEWBV10B	Subprogram
475	QEWBV10C	Subprogram
476	QEWBV10D	Subprogram
477	QEWCAC25	Subprogram
478	QEWCAC27	Subprogram
479	QEWC01	Subprogram
480	QGH00	Program
481	QGH95	Program
482	QGH96	Program
483	QGH97	Program
484	QGH98	Program
485	QGH99	Program
486	QGM00	Program
487	QGM02	Program
488	QGM03	Program
489	QGM04	Program
490	QGM09	Program
491	QGM10	Program
492	QGR00	Program
493	QGR07	Program
494	QGR08	Program
495	QGR09	Program
496	QGR10	Program
497	QGR11	Program
498	QGR14	Program
499	QGR15	Program
500	QGR16	Program
501	QGR17	Program
502	QGR30	Program
503	QGR49	Program
504	QGR51	Program
505	QGR52	Program
506	QGR54	Program
507	QGR55	Program
508	QGR56	Program
509	QGR57	Program
510	QGR58	Program
511	QGR59	Program
512	QGR60	Program
513	QGR63	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
514	QGR64	Program
515	QGR65	Program
516	QGR66	Program
517	QGR70	Program
518	QGR71	Program
519	QGR71B	Program
520	QGR72	Program
521	QGR72B	Program
522	QGR73	Program
523	QGR73B	Program
524	QGR74	Program
525	QGR76	Program
526	QGR77	Program
527	QGR78	Program
528	QGR79	Program
529	QGR80	Program
530	QGR81	Program
531	QGR82	Program
532	QGR83	Program
533	QGR96	Program
534	QGR98	Program
535	QGU00	Program
536	QGU01	Program
537	QGU02	Program
538	QNA00	Program
539	QNA10	Program
540	QNA11	Program
541	QNA12	Program
542	QNA13	Program
543	QNA14	Program
544	QNA15	Program
545	QNA16	Program
546	QNA17	Program
547	QNA20	Program
548	QNA21	Program
549	QNA22	Program
550	QNA30	Program
551	QNA35	Program
552	QNA50	Program
553	QNA51	Program
554	QNA80	Program
555	QNB00	Program
556	QNB10	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
557	QNB15	Program
558	QNB34	Program
559	QNB37	Program
560	QNB50	Program
561	QNB51	Program
562	QNB52	Program
563	QNB60	Program
564	QNB61	Program
565	QNB71	Program
566	QNC00	Program
567	QNC10	Program
568	QNC20	Program
569	QNC70	Program
570	QNC71	Program
571	QNC72	Program
572	QND01	Program
573	QNG00	Program
574	QNR00	Program
575	QNR01	Program
576	QNR11	Program
577	QNR11A	Program
578	QNR17	Program
579	QNR18	Program
580	QPA01A	Program
581	QPA01B	Program
582	QPA10	Program
583	QPB01	Program
584	QPB02	Program
585	QPB03	Program
586	QPB04	Program
587	QPB05	Program
588	QPC01	Program
589	QPD01	Program
590	QPG02	Program
591	QPM01	Program
592	QPM02	Program
593	QPM03	Program
594	QPM04	Program
595	QPM05	Program
596	QPM99	Program
597	QPQ01	Program
598	QPQ04	Program
599	QPR00	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
600	QPR01	Program
601	QPR02	Program
602	QPR03	Program
603	QPR04	Program
604	QPR11	Program
605	QPR21	Program
606	QPR22	Program
607	QPR23	Program
608	QPR24	Program
609	QPR34	Program
610	QPR50	Program
611	QPS01	Program
612	QPU01	Program
613	QPU10	Program
614	QPU90	Program
615	QPX01	Program
616	QPZ01	Program
617	QPZ02	Program
618	QSA00	Program
619	QSA15	Program
620	QSA15L	Local
621	QSA16	Program
622	QSA17	Program
623	QSA17L	Local
624	QSA17M1	Map
625	QSA17M2	Map
626	QSA17M3	Map
627	QSA21	Program
628	QSA22	Program
629	QSA25	Program
630	QSA27	Program
631	QSA40	Program
632	QSA42	Program
633	QSA50	Program
634	QSA51	Program
635	QSA60	Program
636	QSA61	Program
637	QSA62	Program
638	QSA63	Program
639	QSA64	Program
640	QSA65	Program
641	QSA67	Program
642	QSA68	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
643	QSA80	Program
644	QSB00	Program
645	QSB50	Program
646	QSB51	Program
647	QSB52	Program
648	QSB53	Program
649	QSB54	Program
650	QSB55	Program
651	QSB60	Program
652	QSB61	Program
653	QSB71	Program
654	QSD01	Program
655	QSG00	Program
656	QSR00	Program
657	QSR10	Program
658	QSR11	Program
659	QSR17	Program
660	QSR18	Program
661	QTC50	Program
662	QTD01	Program
663	QTH50	Program
664	QTM00	Program
665	QTM01	Program
666	QTM02	Program
667	QTM03	Program
668	QTP50	Program
669	QTQ50	Program
670	QTR01	Program
671	QTR02	Program
672	QTR04	Program
673	QTR04B	Program
674	QTR50	Program
675	QTS50	Program
676	QTU01	Program
677	QTU04	Program
678	QTU05	Program
679	QTU06	Program
680	QTU07	Program
681	QTU08	Program
682	QTU09	Program
683	QTU10	Program
684	QTU11	Program
685	QTU37	Program

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
686	QTU39	Program
687	QTU49	Program
688	QTU50	Program
689	QTU64	Program
690	QTU95	Program
691	QTU96	Program
692	QTU97	Program
693	QTZ50	Program

AMS CENTER UNIQUE MODULES

(Not included in the 7.0.1 Release)

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
1	AMS	Program
2	NAPRDHNA	Subprogram
3	NAPRUHNA	Subprogram
4	NAQSPXNA	Subprogram
5	NAQSPXNB	Subprogram
6	NAXPA1NA	Subprogram
7	NAXPA1NB	Subprogram
8	QBBCU20	Program
9	QBR99	Program
10	QCACU10	Program
11	QCC99	Program
12	QCX11	Program
13	QCX20	Program
14	QCX22	Program
15	QCX33	Program
16	QCX34	Program
17	QCX35	Program
18	QCX37	Program
19	QCX38	Program
20	QGM05	Program
21	QGR99	Program
22	QNACU10	Program
23	QNR99	Program
24	QNX10	Program
25	QNX11	Program
26	QNX20	Program
27	QNX34	Program
28	QNX37	Program
29	QPBCU01	Program
30	QPG02X	Program
31	QPR99	Program
32	QPS02	Program
33	QPS03	Program
34	QSACU60	Program
35	QSR99	Program

NOTE: These center unique modules are not included in the baseline source dataset for Release 7.0.1. They can be provided to the individual centers on an as requested basis.

AMS ADHOC PROGRAM MODULES

<u>COUNT</u>	<u>NAME</u>	<u>TYPE OF MODULE</u>
1	CCR1190	Program
2	YRPRFXCV	Program
3	CCR1231A	Program
4	CCR1231B	Program

